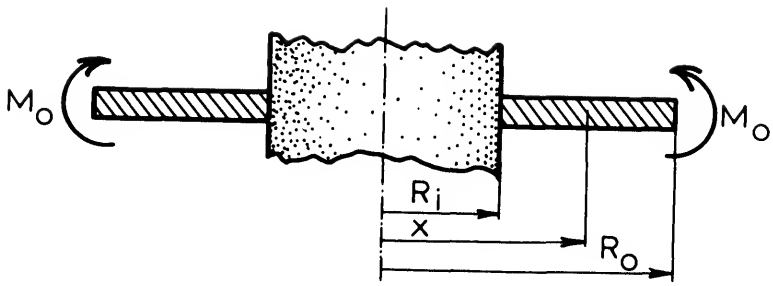
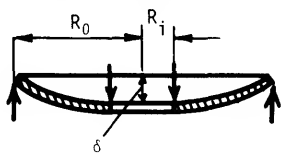
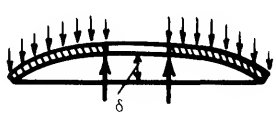
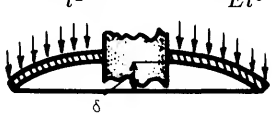
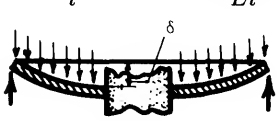
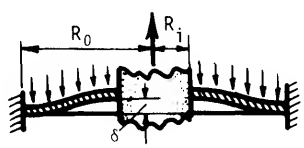
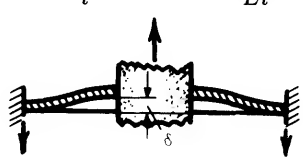
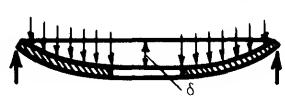
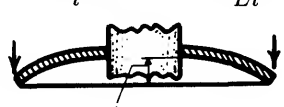


Fig. 32.7 Flat plate with central constraint.

Table 32.2 Formulas for Plates with Central Openings

1.		$S = \frac{WF_1}{t^2}$	$\delta = \frac{WR_o^2B_1}{Et^3}$	
2.		$S = \frac{qR_o^2F_2}{t^2}$	$\delta = \frac{qR_o^4B_2}{Et^3}$	
3.		$S = \frac{qR_o^2F_3}{t^2}$	$\delta = \frac{qR_o^4B_3}{Et^3}$	
4.		$S = \frac{qR_o^2F_4}{t^2}$	$\delta = \frac{qR_o^4B_4}{Et^3}$	
5.		$S = \frac{qR_o^2F_5}{t^2}$	$\delta = \frac{qR_o^4B_5}{Et^3}$	
6.		$S = \frac{WF_6}{t^2}$	$\delta = \frac{WR_o^2B_6}{Et^3}$	
7.		$S = \frac{qR_o^2F_7}{t^2}$	$\delta = \frac{qR_o^4B_7}{Et^3}$	
8.		$S = \frac{WF_8}{t^2}$	$\delta = \frac{WR_o^2B_8}{Et^3}$	